



the molecular weight of the final branched polymer can be controlled by the ratio of 1,1,1-tris(4-hydroxyphenyl)ethane (THPE) and tert-butylphenol (tBP) monomers to Bisphenol-A (BPA) monomers. Considering only lengthening the linear portion (n) of the branched molecule, following are calculated relative molar concentrations of each of the monomers for the type of branched molecule illustrated above as a function of generation (n , linear chain length). For each increasing generation (n) the changes in relative monomer concentrations are most dramatic at lower generations (low molecular weight) and become negligible at higher molecular weight (assuming